i-STEM 2017 Request for Proposals (RFP) Strand Providers

A. Overview

We are currently seeking proposals from individuals interested in presenting a strand at the 2017 i-STEM Summer Institutes that align with the emphasis areas*:*

❖ ***Relevance—STEM in My Backyard.*** Focusing on increasing participants' knowledge and use of contextual placed‑based STEM and other educational innovations to provide context and relevance in their lessons while meeting the learning objectives.

❖ ***Systemic Change—STEM for the Future.*** Focusing on increasing participants' understanding of the relationship between experience, mindset, and use of educational innovations in the classroom to transform their integrated STEM teaching and realize systemic change to meet the challenges of 21st Century learning.

Strands should focus on integrated STEM across the curriculum, aligning with Idaho State Science Standards and the Idaho Core Math Standards, and use of alternative assessments to determine impact of the strand on student learning. We are accepting proposals from individuals, groups, or organizations interested in presenting a theme-based strand during the 2017 i-STEM Summer Institutes. Institutes will take place at the College of Southern Idaho (Twin Falls), Idaho State University (Pocatello), North Idaho College (Coeur d'Alene), College of Western Idaho (Nampa), Eastern Idaho Technical College (Idaho Falls), and Lewis-Clark State College (Lewiston). The strands (week long short courses of about 20 hours of contact time) are to be designed to increase the participating educators' STEM content and pedagogy knowledge as well as teachers' ability to effectively integrate STEM in the classroom.

Proposal submissions for presenters must be completed at the following link prior to January 9:
https://goo.gl/forms/CYvJiFHbpAKGMxwE3

Dates for the respective 2017 i-STEM Institutes are:

❖ North Idaho College: June 19-22

❖ Lewis-Clark State College: June 19-22

❖ Idaho State University: June 20-23

❖ Eastern Idaho Technical College: June 26-29

❖ College of Southern Idaho: June 26-29

❖ College of Western Idaho: June 27-30

B. Strand Provider Requirements

1. All Strand Providers must focus their content on integrated STEM themes or related concepts and model how teachers can integrate STEM across the curriculum, how the strand aligns to Idaho Science Standards and Idaho Core Math Standards, and how teachers might assess student learning using alternative assessment methods.

2. Each strand will provide about 20 hours of hands-on instruction.

3. You and your participants will be receiving classroom technology. You will receive training on this technology and be asked to integrate it into your strand.

4. You will be expected to follow up with each of your strand participants to ensure that they have met professional development requirements for institute credit.

5. You will be expected to provide each participant a hands-on instructional kit, which includes activities and materials, valued at approximately $200 to support lessons and activities taught during the institute in expectation that the participants can take the kits back to implement in the classroom. Funding for the kits will be provided by i-STEM. Kits will be distributed to the participants at the institute.

6. Strand providers will be expected to attend a one day training organized by the i-STEM Committee at Boise State University in March of 2017. This training is mandatory for all strand providers to clarify expectations, demonstrate lessons and activities, receive training on the device that will be given to participants, prepare for kit ordering, explain the research expectations, and answer questions. More information will be forthcoming to selected strand providers.

7. Curriculum strand providers are expected to integrate and participate in all conference activities and will be expected to guide lesson planning activities with your strand participants.

8. You will be expected to design a content knowledge test specific to the content of your strands which will be administered pre- and post- strand instruction. You are expected to administer, collect, and share data on your pre and post strand tests.

9. All strands are expected to organize at least one off-site instructional field trip that supports the content in their respective strands. In the submission process, potential strand providers will need to describe the field trip they propose to use for their strand participants.

10. All strands are expected to identify businesses and agencies that may serve as business partners or co-presenters in their strands. (e.g. guest speakers, field trip suggestions, instructional material providers, in-kind support, etc.)

11. You are expected to identify three primary learning objectives that participants in your strand would accomplish and be able to immediately integrate into their instruction and curriculum and identify and demonstrate alternative assessment techniques that the participants can use in the classroom to evaluate student learning.

12. All chosen strands must meet the following criteria:
    a. Inclusion of project-based, hands-on learning activities
    b. Alignment with the applicable state standards
    c. Integration of STEM across the curriculum
    d. Assessment tool that teachers can use with the strand to demonstrate student learning outcomes
    e. Theme is tied to regional industry and workforce needs
    f. Emphasizes the research theme
    g. Provides participants with both content and pedagogical knowledge

C. Strand Provider Compensation

All strand providers will be compensated with a $1000 stipend for each strand/site they conduct and assistants will receive a $500 stipend. Travel costs to attend the mandatory training will be reimbursed. Kit costs up to $200/kit will be paid for by i-STEM.

D. Schedule

❖ November 15: Issue RFP
❖ January 9: Proposal Deadline for submission

- ❖ January 6-23: Proposal review by site coordinators and iSTEM team
- ❖ January 24: Strand providers notified of selection
- ❖ March 2017: Strand provider training in Boise, ID

E. Proposal Submission

During the electronic submission process the following are key items to pay attention to. All proposals must include the following elements:

1. Name of the Strand with a clear description to help participants in the selection process.

2. The description should include the target audience and/or grade level for that specific strand, such as; K-3, 4-6, 7-9, or 10-12. There is a first choice and second choice option.

3. A summary of the proposed strand (1-2 pages) and a draft agenda for the four (4) day institute. Include brief explanations of the activities participants will engage in to learn content material. These explanations should include:

   a. Agenda for the four days (20 hours instruction)
   b. Sample Lesson Plan (to be completed if selected)
   c. Pre and post content knowledge tests for participants (to be completed if selected)
   d. Strand Overview including daily objectives
   e. Sample of student assessments participants can use (to be completed if selected)
   f. Any special classroom equipment needed
   g. List of potential off-site field trips
   h. Top 3 takeaways (goals) for participants
   i. 5 key descriptor words for proposed strand

4. Describe how you will implement and embed the use of the video camera and editing software in your strand. Provide an activity idea you would embed.

5. Describe how you will work with strand participants and principals to follow up on strand content implementation during the upcoming school year.

6. List the strand's instructional kit contents and cost per individual items. Provide an explanation of how teachers will be trained in the institute to implement kit materials. Kit value should be approximately $200 and should be distributed at the institute.

7. Explain how you will model effective integration of Math, Science, Engineering, Technology, Idaho Core Math and Science Standards in your strand. We want you to talk and model effective cross curricular activities, practices, and strategies that will build teachers' capacity to effectively integrate STEM in their classrooms.

For those strand providers who have presented multiple times at the same institute, please give consideration to presenting at a new location or presenting a new content strand.

F. Proposal Submission Link

Individuals desiring to submit a proposal must do so by completing the application at the following link: https://goo.gl/forms/CYvJiFHbpAKGMxwE3.

If you have questions with preparing the application, contact Cassidy Hall at cassidyh@uidaho.edu for assistance.